

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-098517

(43)Date of publication of application : 11.04.1995

(51)Int.Cl. G03G 9/087
C08G 85/00

(21)Application number : 06-111956

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(22)Date of filing : 26.04.1994

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(30)Priority

Priority number : 05101114 Priority date : 27.04.1993 Priority country : JP

(54) PRODUCTION OF BONDING RESIN AND ELECTROPHOTOGRAPHIC TONER

(57)Abstract:

PURPOSE: To improve the environmental stability of the extent of electrostatic charge and image quality by mixing the starting monomer mixtures of two polymn. systems with a compd. capable of reacting with them and carboxylic acid having ≥ 3 carboxylic groups and allowing two polymn. reactions to proceed parallel to each other in the same reactor.

CONSTITUTION: The starting monomer mixtures of two polymn. systems having mutually independent reaction paths are mixed with a compd. capable of reacting with any of the monomers and carboxylic acid having ≥ 3 carboxylic groups or its deriv. in a reactor and two polymn. reactions are allowed to proceed parallel to each other in the same reactor. One of the polymn. systems is of condensation polymn. type and the other is of addition polymn. type. The former system gives polyester or polyamide by condensation polymn. and the latter system gives vinyl resin by radical polymn. Polyoxypropylene (2,2)-2,2-bis(4-hydroxyphenyl) propane may be used as a diol component.

LEGAL STATUS

[Date of request for examination] 04.09.1997

[Date of sending the examiner's decision of rejection] 28.02.2000

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Date of expiration of right]

[Date of extinction of right]

[Date of extinction of right]